PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

10/626,507

Filing Date:

July 24, 2003

Applicant:

Son Ho

Group Art Unit:

2188

Examiner:

Kaushikkumar Patel

Title:

LINE CACHE CONTROLLER

Attorney Docket:

MP0390

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. COPIES

A. Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed, other than U.S. patents and U.S. patent application publications unless required by the Office; (iii) each unpublished U.S. application listed below in Section IV (i.e., including the specification, claims, and any drawing of the application, or that portion of the application which caused it to be listed, including any claims directed to that portion), except for such applications filed on or after June 30, 2003, pursuant to the Waiver of the Copy Requirement in 37 C.F.R. 1.98 (OG Notice dated October 19, 2004); and (iv) all other information or that portion which caused it to be listed.

	B. Any patents, publications or other information which are listed on For 1449 or on the copies of PTO-892, but which are not enclosed herewith, we previously cited by or submitted to the PTO in one of the following application which has been relied upon for an earlier filing date under 35 U.S.C. § 120:			
	U.S. Serial Number	U.S. Filing Date		
	C. This is a PCT application in the entry of States. A copy of the International Search Repinformation. The documents listed on the International Search Repinformation. The documents listed on the International Action In the attached Form 1449 for consideration In any patent resulting from this application. If the from the US, EPO, or JPO search authorities, have been supplied to the USPTO under the believed to be in the file of the above-identified	port is attached for the Examiner's ernational Search report are listed by the Examiner and for listing on the International Search report was copies of these references should the trilateral agreement and are		
III.	CONCISE EXPLANATION OF THE RELEVAN	CE (check <u>at least</u> one box)		
	A. Except as may be indicated below in (B) other information are in the English language (c)			
	B. A concise explanation of the relevance of information listed that is not in the English lang § 1.98(a)(3)):			
	1. See the attached foreign pater counterpart foreign application:	nt office communication from a		
	2. English translations are provided:			
	3. Other:			
	C. The following additional information consideration.	is provided for the Examiner's		

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does (do) not waive the confidentiality provisions of 35 U.S.C. § 122.

<u>Serial No.</u> 10/646,289

Filing Date 08/21/2003

Inventor(s)
Ho et al.

V. THIS IDS IS BEING FILED UNDER

A. 37 C.F.R. § 1.97(b): (check <u>only</u> one box)

- 1. within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.
- 2. within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.
- 3. Defore the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
- 4. Defore the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. **37 C.F.R. § 1.97(c):** (check <u>only</u> one box)

before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

- 1. No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
- 2. \square See the certification below. No fee is required.

	C. [37 C.F.R. § 1.97(d):
	after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.
	1. See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
VI.	CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)
	The undersigned hereby certifies that:
	A. \square each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. 1.704(d) below in section VII if applicable; or
	B. \square no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item or information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).
	C. some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.
VII.	STATEMENT UNDER 37 C.F.R. 1.704(d)
	The undersigned hereby states that:
	each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS

VIII. PAYMENT OF FEES (check only one box, if applicable)

- A. A check in the amount of \$180.00 is enclosed for the above-identified fee.
- B. Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-identified fee. A duplicate copy of this paper is attached.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Respectfully submitted,

Dated: September 29, 2006

Damian M. Aquino Reg. No. 54,964

Harness, Dickey & Pierce, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (248) 641-1600

DMA/tmf

FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 2

SERIAL NO:	
10/626,507	
GROUP	
2188	

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		5,699,551	12/1997	Taylor et al		
2.		6,014,756	1/2000	Dottling et al		
3.		6,151,664	11/2000	Borkenhagen et al		
4.		6,182,196 B1	1/2001	DeRoo, John E.		
5.		2003/0217230 A1	11/2003	Rodriguez et al		
6.		2004/0093465 A1	5/2004	Ramchandran, Amit		
7.		6,732,235 B1	5/2004	Krivacek et al		
8.		2004/0199718	10/2004	Byers et al		
9.		6,820,170 B1	11/2004	Elnathan et al		
10.		6,931,489 B2	8/2005	DeLano et al		
11.		7,047,387 B2	5/2006	Goodsell, Andrew E.		
12.		5,594,886	1/1997	Smith et al		

FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	on No
1.							

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)			
Ref. Desig.	Examiner's Initials		
1.		The Cache Memory Book, 2nd edition by Jim Handy, Pub. 1998, Pages 14-17, 42,47, 54-55 and 57.	

Examiner:	Date Considered:

FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 2 of 2

ATTORNEY DOCKET No.	SERIAL NO.	
MP0390	10/626,507	
APPLICANT		
Son Ho		
FILING DATE	GROUP	
7/24/2003	2188	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)			
Ref. Desig.	Examiner's Initials		
2.		Application-Driven Synthesis of Memory-Intensive Systems-on-Chip by Kirovski et al (IEEE Transactinos on Computer-aided design of integrated circuits and systems, Vol. 18, No. 9, September 1999, Pages 1316-1326.	
3.		Improving Direct-Mapped Cache Performance by the Addition of a Small Fully-Associative Cache and Prefetch Buffers; Norman P. Jouppi; Western Rearch Laboratory, Technical Note TN-14; March 1990; 46 pages	

Examiner:	Date Considered:	